

PROJECT DESCRIPTION

I. GENERAL:

THIS PORTION OF THE PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 7 AND ROSEDALE AVENUE / HAMILTON AVENUE IN BALTIMORE COUNTY. A NEMA CONTROLLER IN A SIZE "6" BASE MOUNTED CABINET SHALL BE INSTALLED AT THE INTERSECTION.

MD 7 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

II. INTERSECTION OPERATION:

THE INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE, FULL-ACTUATED MODE. MD 7 WILL OPERATE CONCURRENTLY WITH EXCLUSIVE/PERMISSIVE LEFT TURNS FOR BOTH DIRECTIONS. ROSEDALE AVENUE AND HAMILTON AVENUE SHALL OPERATE IN A SPLIT PHASE.

A SIZE 6 FULL-ACTUATED CONTROLLER WITH ALL NECESSARY EQUIPMENT SHALL BE HOUSED IN A BASE-MOUNTED CABINET SHALL BE INSTALLED AT THE INTERSECTION.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

QUANTITY	DESCRIPTION
1 EA	NEMA EIGHT PHASE, FULL-TRAFFIC-ACTUATED CONTROLLER WITH VIDEO DETECTION UNIT, 1- FOUR CHANNEL RACK MOUNTED AMPLIFIER, AND ALL NECESSARY EQUIPMENT.
75 SF	FLAT SHEET ALUMINUM SIGNS CONSISTING OF: 2 EA R3-5 (30"x36") MAST ARM MOUNT 2 EA D-3(2) (16" X VAR.) MAST ARM MOUNT 2 EA R10-6A (24"x30) GROUND POST MOUNT

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. RANDALL SCOTT  
ASSISTANT DISTRICT ENGINEER-TRAFFIC  
PHONE: 410-321-2781-2885

MR. DAVID CREIGHTON  
ASSISTANT DISTRICT ENGINEER-CONSTRUCTION  
410-321-2821

MR. STEVE MARCISZEWSKI  
ASSISTANT DISTRICT ENGINEER-MAINTENANCE  
410-321-2761

MR. MIKE PAQUARILLO  
DISTRICT UTILITY ENGINEER  
410-321-2841

THE CONTACT PERSONS FOR  
OFFICE OF TRAFFIC AND SAFETY:

MR. ED RODENHIZER  
CHIEF, SIGNAL OPERATION SECTION  
PHONE: 410-787-7652

MR. ROBERT SNYDER  
ASST. CHIEF, TRAFFIC OPERATION DIVISION  
410-787-7631

MR. JAY THAKER  
PROJECT MANAGER, TRAFFIC  
ENGINEERING DESIGN DIVISION  
410-582-5682

EQUIPMENT LIST "B"

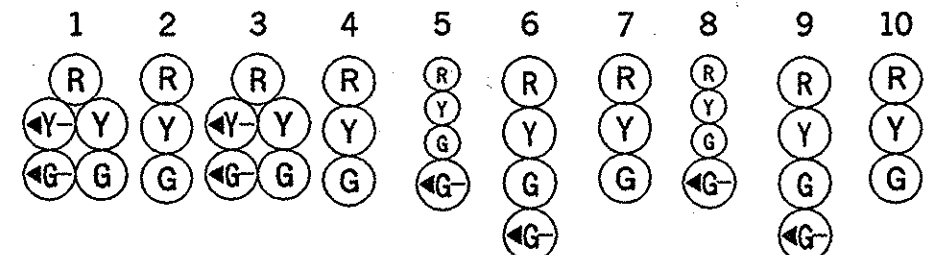
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CAT. CODE	QUANTITY	DESCRIPTION
203030	2 CY	TEST PIT EXCAVATION
800000	4 EA	AUDIBLE TACTILE PEDESTRIAN PUSHBUTTON
800000	1 EA	NAVIGATOR CENTRAL CONTROL UNIT
800000	2 EA	DISCONNECT & RELOCATE EXISTING VIDEO DETECTOR CAMERA (REWIRE)
801004	12 CY	CONCRETE FOR SIGNAL FOUNDATION
805125	20 LF	2" SCHEDULE 80 PVC CONDUIT-TRENCHED
805135	430 LF	3" SCHEDULE 80 PVC CONDUIT-TRENCHED
805140	60 LF	4" SCHEDULE 80 PVC CONDUIT-TRENCHED
805150	110 LF	3" SCHEDULE 80 PVC CONDUIT-SLOTTED
805155	50 LF	4" SCHEDULE 80 PVC CONDUIT-SLOTTED
807202	1 EA	METERED SERVICE PEDESTAL
810010	30 LF	ELEC CABLE - 1 CONDUCTOR NO. 4 AWG-THHN/THWN
810601	2 EA	NON-INVASIVE PROBE WITH 500' LEAD-IN CABLE
811001	7 EA	FURNISH & INSTALL ELECTRICAL HANDHOLE
813015	75 SF	INSTALL SHEET ALUMINUM SIGN- OVERHEAD
816001	2 EA	VIDEO DETECTOR CAMERA
816005	2 EA	CONTROL CABLE, 250', VIDEO DETECTOR CAMERA TO CONTROLLER
818036	1 EA	STEEL POLE WITH SINGLE 50' MAST ARM
818050	1 EA	STEEL POLE WITH TWIN 50' AND 60' MAST ARMS
831010	1 EA	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE
832020	240 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
837001	5 EA	GROUND ROD (3/4" DIA X 10' LENGTH)
860270	6 EA	8" LED SIGNAL HEAD SECTION
860272	32 EA	12" LED SIGNAL HEAD SECTION
860292	3 EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
861107	100 LF	ELECTRICAL CABLE 5 - CONDUCTOR NO. 14 AWG
861108	750 LF	ELECTRICAL CABLE 7 - CONDUCTOR NO. 14 AWG
861116	100 LF	ELECTRICAL CABLE 2 - CONDUCTOR NO. 12 AWG TRAY CABLE
866104	1 EA	20' LIGHTING ARM ON SIGNAL STRUCTURE
871202	1 EA	INSTALL CONTROLLER AND CABINET-BASE MOUNT

EQUIPMENT LIST "C"

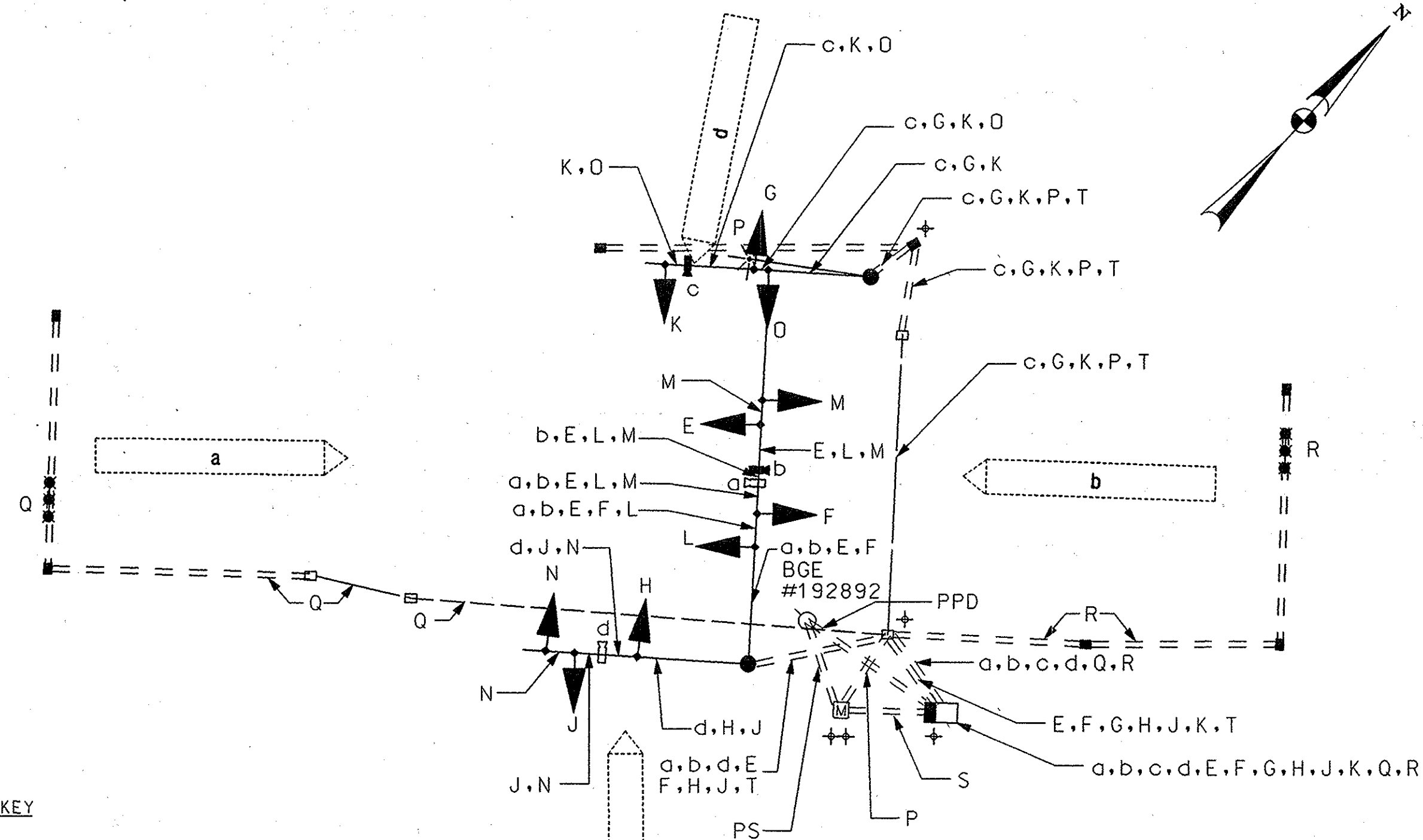
C. SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILLIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PHASE CHART



PHASE 1 AND 5	←GR	R	←GR	R	R	R	R	R	R	R
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6										
PHASE 1 AND 6	←GG	G	R	R	R	R	R	R	R	R
1 CHANGE	←YG	R	R	R	R	R	R	R	R	R
PHASE 2 AND 5	R	R	←GG	G	R	R	R	R	R	R
2 CHANGE	R	R	←YG	G	R	R	R	R	R	R
PHASE 2 AND 6	G	G	G	G	R	R	R	R	R	R
2 AND 6 CHANGE	Y	Y	Y	Y	R	R	R	R	R	R
PHASE 3	R	R	R	R	←G	←G	G	R	R	R
3 CHANGE	R	R	R	R	Y	Y	Y	R	R	R
PHASE 4	R	R	R	R	R	R	R	←G	←G	G
4 CHANGE	R	R	R	R	R	R	R	Y	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/Y	FL/R	FL/R	FL/R	FL/R

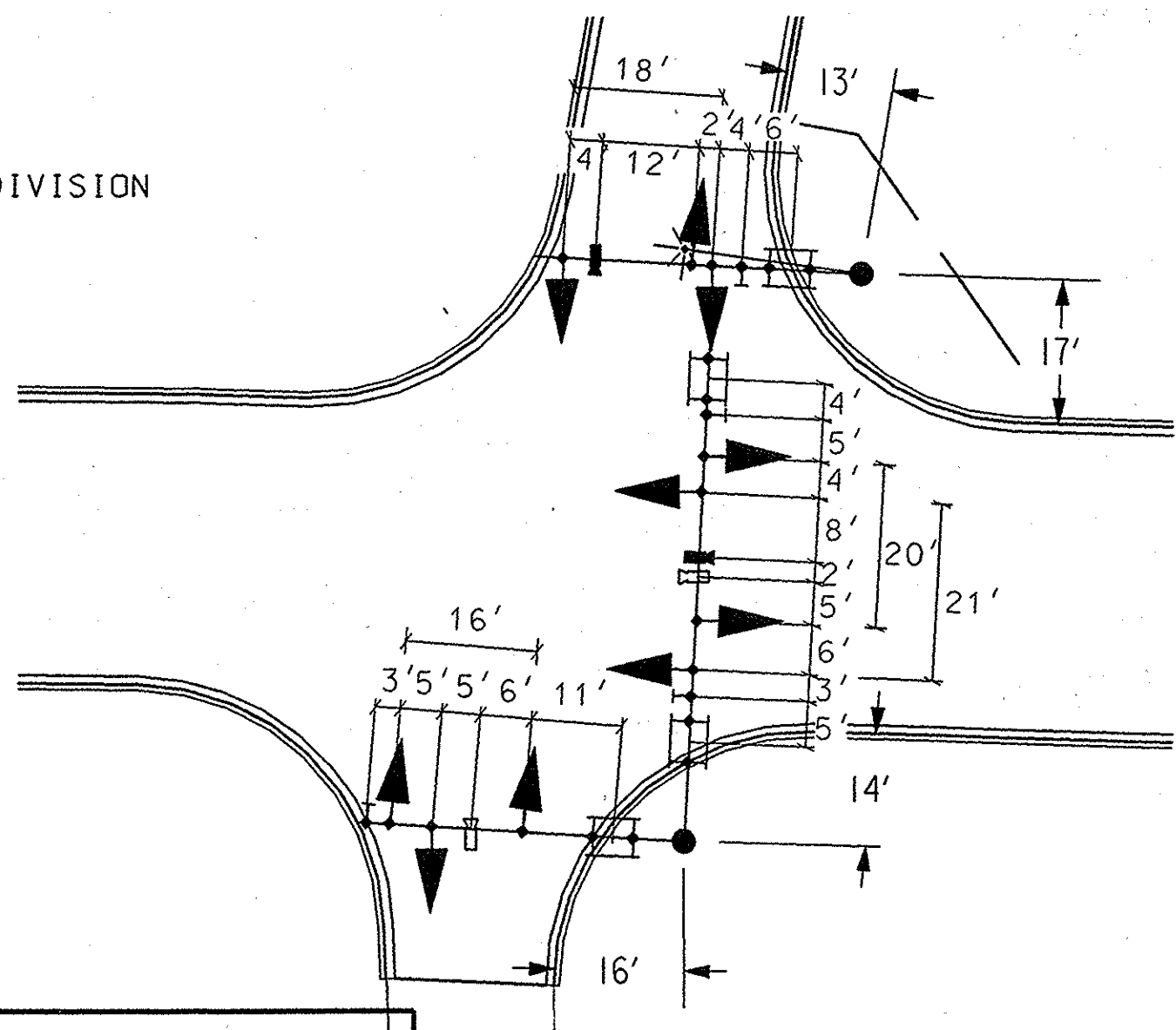
WIRING DIAGRAM



WIRING KEY

- Q) NON-INVASIVE PROBE LEAD-IN .500'
- R) (3-WIRES) 1 CONDUCTOR ELECTRICAL CABLE NO. 4 AWG
- S) 1 CONDUCTOR (NO. 6 AWG) STRANDED BARE COPPER GROUND WIRE
- T) PROPOSED UNDERGROUND SERVICE FEED
- PS) PROPOSED UNDERGROUND PHONE DROP
- + 3/4" DIA. X 10' LENGTH GROUND ROD
- M) METERED SERVICE PEDESTAL

DIMENSION DETAIL



**CENTURY**  
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CONSULTING ENGINEERS - PLANNERS  
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HUNT VALLEY, MD 21031

**T3**  
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<b>SHA</b> STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION <b>MD 7 (PHILADELPHIA RD) AND ROSEDALE AVE / HAMILTON AVE</b>	
<b>GENERAL INFORMATION SHEET</b>	
SCALE 1" = 20'	DATE 10/10/06 CONTRACT NO. BA6885185
DESIGNED BY AJM	COUNTY BALTIMORE
DRAWN BY SJW	LOGMILE 03000700.66
CHECKED BY PAT	T.I.M.S. NO. F189
F.A.P. NO.	TOD NO.
DRAWING NO. TS-1653D	SG-2 OF 9 SHEET NO. 163 OF